7th Annual
Surface Water Monitoring and Standards Meeting

SWiMS

Chicago, IL
March 18-20, 2008

Location Information: SWiMS sessions will be held at the following locations.

Holiday Inn – Mart Plaza
350 N. Orleans St., Chicago, IL 60654

EPA Region 5 (highlighted in green below)
77 W. Jackson Blvd., Chicago, IL 60604

Tuesday, March 18

10:00 *EPA Region 5* *12th Floor*	**Pre-SWiMS Meeting: Update on Nutrient Criteria Development in R5 States,** Brian Thompson, EPA Region 5 Objective: Region 5 States will give an update on progress over the past year, expected milestones this year, and opportunities for stakeholder input over the next year.
12:00	*Lunch on your own*
1:30 Sauganash Grand Ballroom	*Concurrent Sessions - Holiday Inn-Mart Plaza* **Session 1A/B: *Cladophora* and its Impacts: Ecological Links, Monitoring, Pathogens, and Management Implications** Kristi Minahan, Wisconsin Department of Natural Resources Objective: This session will explore various ecological impacts of *Cladophora*. - **Nuisance Algae in Lake Michigan: Causes, Consequences and Management Options,** Harvey Bootsma, University of Wisconsin-Milwaukee, Great Lakes WATER Institute - **Surveying for *Cladophora* distribution & water chemistry on the nearshore of Western L. Michigan, 2004-2007,** Paul Garrison, Wisconsin Department of Natural Resources - **Impact of *Cladophora* mats on *E. coli* concentrations in beach water in Door County, WI**, Greg Kleinheinz, R.S., Ph.D., University of Wisconsin-Oshkosh
1:30-2:15 Western Stage Coach	**Session 1C: Data to Maps (D2M): An overview,** Janice Huang, EPA Region 5 Objective: Locally-led watershed projects need to be able to show the public, partners and others where water quality problems are occurring in their watershed. To address this need, working with local watershed groups, USEPA Region 5 developed Data2Maps a custom Excel application in which users can overlay their sampling data on static maps and do preliminary assessment and analyses.
3:00	*Break*

3:30	**Session 2A: Anti-degradation Stakeholders Forum,** David Pfeifer, EPA Region 5
	 Objective: This session is intended to encourage participants to think about and discuss how antidegradation ought to work. Environmental advocacy groups in the Region have been prepared detailed analyses of several States' antidegradation policies and procedures as well as suggested revisions to improve the antidegradation policies and their implementation.
	
	 Speakers Include:
	    - Albert Ettinger, Environmental Law and Policy Center
	    - Betsy Lawton, Midwest Environmental Advocates
	    - Chris Sigford, Minnesota Center for Environmental Advocacy
	
	 Session 2B: Sanitary Surveys and Predictive Models: Success and Opportunities for the Future, David Rockwell, EPA-GLNPO and Holly Wirick, EPA Region 5
	 Objective: To provide beach managers and public health officials tools to assess beaches, forecast beach water quality, and potentially reduce beach water contamination in order to reduce beach closures and better protect public health.
	    - **Beach Sanitary Surveys,** Dr. Greg Kleinheinz, University of Wisconsin-Oshkosh; Dr. Julie Kinzelman, Racine Health Department
	    - **Development of Virtual Beach Predictive Modeling Software,** Kurt Wolfe, EPA ORD-Athens
	    - **Developing Water and Land Tools to Forecast Bacterial Exposure in Beach Settings, Advanced Monitoring Initiative**, Richard Zepp, ORD-Athens; Richard Zdanowicz, EPA-Region 5
	    - **Beach Models: Predicting Water Quality,** Illinois Department of Public Health DVD on three predictive models used in the Great Lakes

5:00	*End*

Wednesday, March 19
<u>Note different start times in the morning</u>

8:00	*Concurrent Sessions – Note different start times* **Session 3A: Statistical Tools for Analyzing Nutrient Data for Criteria Development,** Michael Paul, Tetra Tech, Inc. Objective: Dr. Paul will be presenting an overview of relevant statistical tools for developing nutrient criteria, from a perspective of how non-statisticians can effectively use them.
8:30	**Session 3B: Making Assessment Decisions: Combining Multiple Types of Data,** Gregg Good, Illinois Environmental Protection Agency Objective: States and Tribes collect multiple types of data (e.g., physical, chemical, biological, toxicological) to assess attainment of Aquatic Life (ALU) and other beneficial uses, as per Clean Water Act requirements. This session explores different approaches for using different types of data in these decision processes. <center>**This is a two part session**</center> 8:30 **Session Introduction and Overview,** Gregg Good, Illinois Environmental Protection Agency 9:35 **IA and Weight of Evidence – A Historical Perspective, Including the Nuts and Bolts,** Chris Yoder, Midwest Biodiversity Institute 9:00 **IA and Weight of Evidence – Region 5 Position and Perspectives,** Donna Keclik, EPA Region 5

	9:20 **Illinois Perspectives,** Roy Smogor, Illinois Environmental Protection Agency
	9:35 **Minnesota Perspectives**, Bill Cole, Minnesota Pollution Control Agency
	9:50 **Michigan Perspectives,** Gary Kohlhepp, Michigan Department of Environmental Quality

10:00   *Break*

10:30

Session 4A: Water Quality Standards: New Criteria, David Pfeifer, EPA Region 5
<u>Objective</u>: This session will provide an overview of new criteria development, including international perspectives on criteria development and new data drivers. In addition, he will provide examples of new criteria and provide future directions for criteria development.

> **- Water Quality Criteria/Standards: International Trends and Application,** Dr. William Stubblefield, Oregon State University

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Session 4B: Making Assessment Decisions: Combining Multiple Types of Data, Part 2
Gregg Good, Illinois Environmental Protection Agency

10:30   **Ohio Perspectives,** Jeff DeShon, Ohio Environmental Protection Agency
10:45   **Wisconsin Perspectives,** Greg Searle, Wisconsin Department of Natural Resources
11:00   **Indiana Perspectives**, Jody Arthur, Indiana Department of Environmental Management
11:15   **ORSANCO Perspectives,** Greg Youngstrom, Ohio River Valley Water Sanitation Commission
11:30   **Facilitated Open Discussion: What have we learned? Where do we go from here? Future recommendations?** Gregg Good, Illinois Environmental Protection Agency

12:00   *Lunch – on your own*

1:00   *Concurrent Sessions*

Session 5A: Probabilistic Surveys: Update of Regional Activities, Sarah Lehmann, EPA Region 5
<u>Objective</u>: This session will briefly describe the status of the national water quality surveys for lakes, rivers/streams, coastal waters, and wetlands. It will focus on results of regional/state enhancements to various survey as well as other related projects.
- **National Lakes Assessment Project (NLAP): Enhancements for Minnesota,** Steve Heiskary, Minnesota Pollution Control Agency
- **Assessment of Wisconsin's Stream Resources Using Probabilistic Sampling,** Mike Miller, Wisconsin Department of Natural Resources
- **Development of a Regional Fish Index for Seven Large Rivers in EPA Region 5,** Erich Emery, Ohio River Valley Water Sanitation Commission
- **Analysis of Wadeable Stream Survey Data from Region V: Effects of Spatial Survey Design on Estimates of Biological Condition and Stressor Awareness,** Chris Yoder, Midwest Biodiversity Institute

Session 5B: Monitoring our Source Waters and SDWA/CWA Integration
Cary McElhinney, EPA Region 5
<u>Objective</u>: Harnessing research, bio-monitoring and other Clean Water Act tools, this session provides examples of assessing and protecting our source water in action.
- **Upper Mississippi Water Quality Monitoring Network: Status and Future,** Joel Allen (EPA-ORD), Bill Franz (USEPA Reg. 5), Sri Panguluri (Shaw Environmental)
- **Drinking Water Source Protection through Effective Use of the TMDL Processes,** Laura Blake, The Cadmus Group, Inc.
- **EPA's Experimental Stream Facility: Design and Research,** Christopher T.

	Nietch, EPA-Office of Research and Development
2:30	*Break*
3:00	**Session 6A: Monitoring and Assessing the Great Lakes,** Sarah Lehmann, EPA Region 5

Objective: This session will explore Great Lakes monitoring issues and projects.

- **2006 National Water Quality Monitoring Network for Coastal Waters & 2008 Lake Michigan Pilot,** Sue Brauer, Region 5, Land and Chemicals Division
- **Screening and surveillance for chemicals of emerging concern in the Great Lakes Basin,** Ted Smith, EPA-Great Lakes National Program Office
- **Great Lakes Towed Array- new technology and opportunities for monitoring partnerships,** Judy Beck, EPA-Great Lakes National Program Office

Session 6B: Post-Implementation Monitoring, Gary Kohlhepp, Michigan Department of Environmental Quality

Objective: Federal, state, tribal, and local agencies spend a great deal of staff time and money implementing water quality protection and restoration projects. Continued support for such activities requires evaluating the effectiveness of these projects. This session describes some monitoring approaches that have been used to evaluate changes in water quality after project implementation.

- **From headwaters to mouth: Tribal stream and wetland restoration as a top-down model for successful watershed restoration,** Jim Snitgen, Oneida Tribe of Indians of Wisconsin
- **The effect of stream restoration projects on sediment, macroinvertebrates and fish in the Manistee River watershed,** Stephanie Ogren, Little River Band of Ottawa Indians
- **Stormwater BMP Monitoring – Rain Gardens and Fertilizer Runoff,** John Barten, Three Rivers Park District
- **Post-implementation monitoring in the Dead River,** Gary Kohlhepp, Michigan Department of Environmental Quality
  TMDL Implementation Tracking: *Current Status and Future Needs for States in EPA Regions 5, 6, and 10,* Laura Blake, The Cadmus Group, Inc

5:00	*End for the Day*
5:00 - ??	**Mixer at <u>Fado</u> – see folder insert for more information**

Thursday, March 20

9:00	*Concurrent Sessions*

Session 7A: Freshwater Mussels and Water Quality, Ed Hammer, EPA Region 5
Objective: This session will explore the relationship between the health of freshwater mussels and various water quality issues.

- **A comprehensive assessment of the hazards of current use pesticides to native freshwater mussels,** W. Gregory Cope, North Carolina State University
- **Effects of water temperature on early life stages of freshwater mussels: Implications for effluent criteria and climate change,** Tamara J. Pandolfo, North Carolina State University.
- **Reproductive Effects of the Pharmaceutical Fluoxetine on Native Freshwater Mussels**, W. Gregory Cope, North Carolina State University

Session 7B: Pesticide Session 1- State/Tribe & Office of Pesticide Program (OPP) Water Quality Monitoring and Reporting, Joseph Zachmann, Minnesota Department of Agriculture

Speakers include:
- Joseph Zachmann, Minnesota Department of Agriculture
- Leighanne Hahn, Office of Indiana State Chemist; and
- Bruce Wilkinson & Dan Hopkins, EPA OPP Region 5

Objective: State departments of agriculture, tribes or their partners typically function as FIFRA "State Lead Agencies" (SLAs) for registration and use of pesticides to avoid "unreasonable adverse effects to the environment" under the risk-benefit framework of FIFRA. Examples of SLA surface water monitoring efforts, water quality pesticide management plans, and collaboration with Clean Water Act agencies will be provided. OPP Region 5 will provide an overview of its water quality field program, including reporting requirements for pesticides and water quality.

10:30	*Break*

10:45

Session 8A: Monitoring and the Increase in Mining Activities in Region 5, Amanda Bosak, Bay Mills Indian Community, and Dan Cozza, EPA Region 5
Objective: This session will look at various issues related to mining, water quality and monitoring.
- **Comparison of Predicted and Actual Water Quality at Hardrock Mines,** Jim Kuipers, Kuipers & Associates (via conference phone)
- **Monitoring the Distribution and Movement of Mine Wastes in Lake Superior,** Esteban Chiriboga, Great Lakes Indian Fish and Wildlife Commission
- **Tribal concerns regarding monitoring of mining activities within the Mesabi Iron Range,** Nancy Schuldt, Fond du Lac Band

Session 8B: Pesticide Session 2 – OPP Benchmarks, States' Water Quality Standards, and OW National and GLI Criteria, Angela Preimesberger, Minnesota Pollution Control Agency
Objective: This session will overview the development, availability, and purposes of benchmarks, criteria, and standards for pesticides. We will also share the process Minnesota used to adopt new standards for two commonly used corn herbicides, acetochlor and metolachlor, and learn more about pesticide monitoring and standards in Illinois and Michigan.

Speakers include:
- Angela Preimesberger, Minnesota Pollution Control Agency
- Lisa Reynolds Fogarty, U.S. Geological Survey Michigan Water Science Center
- Gary Kohlhepp, Michigan Department of Environmental Quality
- Brian Koch, Illinois Environmental Protection Agency

12:00	*End*